

Title (en)  
Small aperture multifocal

Title (de)  
Multifokallinse mit kleiner Apertur

Title (fr)  
Lentille multifocale avec ouverture mince

Publication  
**EP 0393639 B1 19960131 (EN)**

Application  
**EP 90107373 A 19900418**

Priority  
US 34049689 A 19890419

Abstract (en)  
[origin: EP0393639A2] An optical device suitably employable in intraocular and contact lenses that employs a phase zone plate of a Cohen lens design that relies on a small number of zones to provide multifocal images.

IPC 1-7  
**G02B 5/18**; **G02C 7/04**

IPC 8 full level  
**G02C 7/04** (2006.01); **G02B 3/08** (2006.01); **G02B 5/18** (2006.01); **G02C 7/06** (2006.01)

CPC (source: EP KR US)  
**G02B 5/18** (2013.01 - KR); **G02B 5/1876** (2013.01 - EP US); **G02C 7/042** (2013.01 - EP US); **G02C 7/044** (2013.01 - EP US);  
**G02C 2202/20** (2013.01 - EP US)

Cited by  
US5076684A; EP0537643A1; DE4134518A1; EP2377493A4; EP3179294A4; WO2012078763A1; US9304329B2; US10698234B2;  
US11523897B2; US11573433B2; US7063422B2; US11497599B2; US11914229B2

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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**EP 0393639 A2 19901024; EP 0393639 A3 19911023; EP 0393639 B1 19960131**; AT E133794 T1 19960215; AU 5367590 A 19901025;  
AU 638451 B2 19930701; CA 2014754 A1 19901019; CA 2014754 C 19981229; CN 1023259 C 19931222; CN 1047925 A 19901219;  
DE 69025085 D1 19960314; DE 69025085 T2 19960530; DK 0393639 T3 19960219; ES 2081869 T3 19960316; GR 3019599 T3 19960731;  
IE 74683 B1 19970730; IE 901372 A1 19910213; IE 901372 L 19901019; IL 94136 A0 19910131; IL 94136 A 19941007;  
JP 2768801 B2 19980625; JP H0362001 A 19910318; KR 100215166 B1 19990816; KR 900016784 A 19901114; NO 300047 B1 19970324;  
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DE 69025085 T 19900418; DK 90107373 T 19900418; ES 90107373 T 19900418; GR 960400994 T 19960409; IE 137290 A 19900418;  
IL 9413690 A 19900419; JP 10439190 A 19900419; KR 900005450 A 19900419; NO 901744 A 19900419; TW 79103827 A 19900511;  
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